Claims

- [c1] 1. A method of facilitating testing of a first module and a second module together in an integrated circuit, said method comprising:
 - providing said second module with a capability of being tested in each of a plurality of characteristics of a first control signal;
 - providing a programmable field, which can be programmed to generate a derived control signal having a desired characteristic, wherein said derived control signal is generated from said first control signal by programming said programmable field,
 - wherein said derived control signal of said desired characteristic is provided as a control signal to said second module and said second module is tested with said desired characteristic of said first control signal by programming said programmable field.
- [02] 2. The method of claimwherein said desired characteristic is determined to test a path connecting said first module and said second module at a same speed as in a functional mode of operation of said integrated circuit.
- [c3] 3. The method of claim 2, wherein said first control sig-

nal comprises a clock signal, and wherein said programmable field can be set to generate said derived control signal as an inverted signal of said clock signal.

- [04] 4. The method of claim 2, wherein said first control signal comprises a scan enable signal and wherein said programmable field can be set to generate said derived control signal as rising edge triggered or falling edge triggered scan enable signal.
- [05] 5. The method of claim 2, wherein said programmable field comprises a register.
- [c6] 6. The method of claim 2, wherein said first module comprises a core module provided by a third party not designing said integrated circuit, and said second module is designed by a designer designing said integrated circuit.
- [07] 7. An integrated circuit designed for testing of a first module, wherein said first module is to be integrated into said integrated circuit, said integrated circuit comprising:
 - a second module provided with a capability of being tested in each of a plurality of characteristics of a first control signal, said second module being coupled to said first module by at least one path;

a test logic being programmable to generate a derived control signal having a desired characteristic, wherein said derived control signal is generated from said first control signal, and

wherein said derived control signal of said desired characteristic is provided as a control signal to said second module and said second module is tested with said desired characteristic of said first control signal by programming said test logic.

- [08] 8. The integrated circuit of claimwherein said desired characteristic is determined to test said path at a same speed as in a functional mode.
- [09] 9. The integrated circuit of claim 8, wherein said first control signal comprises a clock signal, and wherein said test logic can be programmed to generate said derived control signal as an inverted signal of said clock signal.
- [c10] 10. The integrated circuit of claim 9, wherein said test logic comprises:

a bit indicating whether said derived control signal is to be generated as a positive clock signal or a negative clock signal; and

an XOR logic gate receiving said bit and said clock signal and generating said derived control signal.

- [c11] 11. The integrated circuits of claim 8, wherein said first control signal comprises a scan enable signal and wherein said programmable field can be set to generate said derived control signal as rising edge triggered or falling edge triggered scan enable signal.
- [c12] 12. The integrated circuit of claim 11, wherein said test logic comprises:
 - a bit indicating whether said derived clock signal is to be generated as said rising edge triggered or said falling edge triggered scan enable signal;
 - a flip-flop coupled to receive said original control signal and being clocked on an inverted clock signal; and a multiplexor selecting either the output of said flip-flop or said original control signal under the control of said bit.
- [c13] 13. The integrated circuit of claim 8, wherein said test logic comprises a register which can be programmed.
- [014] 14. The integrated circuit of claim 8, wherein said first module comprises a core module provided by a third party not designing said integrated circuit, and said second module is designed by a designer designing said integrated circuit.